APPROVED FOR RELEASE: Thursday, September 26 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26 2002 CIA-RDP86-00513R000515610003-0

GOKHBERG, V.M.

3653. **Gas-filled capacitors.** GOKHBERG, V. M. *Elektrichestvo* (*No.* 3) 76–8 (*March*, 1949) *In Russian*

The electric strength of a number of gases was studied, particularly SF_6, "Elegaz," which has an electric strength 2½ × that of air. Fixed capacitors of 2 000 pF at 30–40 kV peak filled with N_2 at 40 atm. were manufactured before the war and in 1941. capacitors, whose construction is described, were made up to 4 000 pF for 40 kV peak at a frequency of 1·2 Mc/s, and filled with SF_6 at a pressure of 7–8 atm.; this gas then had greater electric strength than N_2 at a pressure of 15–20 atm. A 1 200 pF capacitor filled with SF_6 loaded to 2 000 kVA worked at a temperature of 70°c in an ambient temp. of 20°c without forced cooling. SF_6-filled capacitors of 4 000 pF for 10–12 kV have recently been made for furnace applications. Constructional details are given of a variable capacitor of 150–1 270 pF for 32 kV peak at 6×10^5 c/s filled with SF_6 at 8 atm which, when loaded to 1 000 kVA, had a temperature rise of 25–35°c. After several months, working the gas pressure dropped by a few %. Gas-filled capacitors are particularly suitable for use at r.f.

W. R. S.

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

RABUKHIN, A.Ye.; GOKHBERG, V.P.; DOBROKHOTOVA, M.N.; MOROZOVA, L.N.; NEFEDOV, A.F. (Moskva)

Efectiveness of prolonged drug therapy for patients with fresh forms of pulmonary tuberculosis. Klin.med. no.12:28-33 '61. (MIRA 15:9)

(TUBERCULOSIS)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

SOKOLOV, N.V., kand.tekhn.nauk; SHCHETKIN, L.I.; GOKHBERG, Ya.A., inzh.; KRASIL'NIKOV, L.A., inzh.; DMITRIYEV, V.M., inzh.

Production of rope wire with a heavy zinc coating. Stal' 22 no.4:368-370 Ap '62. (MIRA 15:5)

1. Beloretskiy staleprovolochno-kanatnyy zavod.
(Wire drawing) (Zinc plating)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHBERG, [illegible] inzh.; AVIDON, D.A., inzh.; MAMKIN, Ya.I., inzh.

[illegible] design of carrying wire ropes for grounded cableways. [illegible] 25 no.3:281-285 Mr '58. (MIRA 11:4)

1. Vsesoyuznyy [illegible]-kontorskiy [illegible].

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

KIDIN, I.N.; [illegible], [illegible].N.; [illegible], Ya.A.; [illegible], [illegible];
MI[illegible]OV, Yu.M.; [illegible]N, A.A.

Effect of the deformation of austenite prior to patenting on the properties of carbon steel wire. Izv. vys. ucheb. zav.; chern. met. 8 no.11:136-140 '65. (MIRA 18:12)

1. Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHBLIT, A.I.

Uniform reducing gears for carriages of screw-cutting lathes.
Stan.i instr. 29 no.5:35-37 My '58. (MIRA 11:7)
(Lathes) (Gearing)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHBLIT, I.I.

Mechanism of the development of sleep inhibition in ontogeny. Trudy Inst. norm. i pat. fiziol. AMN SSSR 61 46-49 '62. (MIRA 17:1)

1. Laboratoriya vozrastnoy fiziologii i patologii (zav. - prof. I.A. Arshavskiy) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

EXCERPTA MEDICA Sec 2 Vol 12/5 Physiology May 59

1000. ELECTROENCEPHALOGRAPHIC CHARACTERISTICS DURING SLEEP AND WHILE AWAKE IN DOGS OF DIFFERENT AGE (Russian text) - Goshbitt I. I. - BYULL. EKSPER. BIOL. I MED. 1958, 46 7 (30-35) Graphs 3

Every age period is characterized by definite frequency-amplitude indices of EEG, depending on the condition of the animal. In young animals the basic electric activity when the animal is awake is characterized by a rhythm equal to 10-14 per sec. It corresponds to the future rhythm of type. Commencing from the age of 18 days, the rhythm increased to 16-18 per sec, while at 3 months it was 35-45 per sec. Sleep does not cause any significant changes in the bioelectric activity of young puppies. The first signs of the change of EEG in sleep (as compared to that while the dog is awake) commence from the 18-20th day of the dog's life and are manifested by the appearance of slow oscillations of large amplitude. When the puppies are 3 months old, the typical EEG changes characteristic of adult animals appear in sleep.

(II, 8*)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOMBLIT, I.I.; KORNIYENKO, I.A.

Demarcational difference in potentials as a characteric of the changing condition of polarization of skeletal muscles in various age periods. Biul. eksp. biol. i med. 49 no.2:26-31 F '60.
(MIRA 14:5)

1. Iz laboratorii vozrastnoy fiziologii i patologii (zav. - prof. I.A.Arshavskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N.Chernigovskiy AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym.

(MUSCLE) (AGING)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHELIT, I.I.

Characteristics of electrical activity of the cerebral cortex in the newborn under various conditions. Biul. eksp. biol. i med. 52 no.8:12-17 Ag '61. (MIRA 15:1)

1. Iz laboratorii vozrastnoy fiziologii i patologii (zav. - prof. I.A.Arshavskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.V.Parin) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym.

(CEREBRAL CORTEX) (ELECTROENCEPHALOGRAPHY)
(INFANTS (NEWBORN))

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

ZOKHBLIT, I.I.

Characteristics of the polarization of the cerebral cortex according to the degree of impedance and depolarization potential in dogs of various ages. Trudy Inst.norm.i pat.fiziol. AMN SSSR 7:35-36 '64. (MIRA 18:6)

1. Laboratoriya vozrastnoy fiziologii i patologii (zav. - prof. I.A.Arshavskiy) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHBOM, Ye.N., kandidat tekhnicheskikh nauk, dotsent; VEKSLER, V.M., kandidat tekhnicheskikh nauk, dotsent.

Measures for improving the work of the PK-6 railroad crane. Sbor. LIIZHT no.145:172-190 '53. (MLRA 8:10)
(Cranes, derricks, etc.)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

KOGAN, Liber Ayzikovich, kand.tekhn.nauk; GOKHBOM, Yevgeniy Naumovich; VEKSLER, Vladimir Markovich; KHOTIN, Boris Mikhaylovich; Prinimali uchastiye: PETROVA, T.I., ANAN'YEVA, S.A.; TAL', K.K.; BUTSKIY, A.M.; LOBOV, A.A. BOBROVA, Ye.N., tekhn.red.

[Containers] Konteinery. Pod obshchei red. L.A.Kogana. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 318 p. (MIRA 14:3)
(Railroads--Freight) (Containers)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHBOM, Ye.N., dotsent, kand.tekhn.nauk; VEKSLER, V.M., dotsent, kand. tekhn.nauk

Efficient parameters of flat freight cars and containers. Sbor. LIIZHT no.168:277-300 '60. (MIRA 13:10)
(Railroads--Freight cars) (Containers)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHBOM, Ye.N., kand.tekhn.nauk, dots.; BARTOSH, N.T., inzh.

"Establishing time standards for the mechanical loading and unloading of cars" by A.V.Lenskii, Reviewed by E.N.Gokhbom, N.T. Bartosh. Vest.TSNII MPS 19 no.1:62-63 '60. (MIRA 13:4)

1. Leningradskiy institut inzhenerov zheleznodorozhnogo transporta imeni akad. V.N.Obraztsova i Transportnoye upravleniye Leningradskogo soveta narodnogo khozyaystva.
(Bibliography--Loading and unloading)
(Lenskii, A.V.)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

KYVKIN, Mikhail Gelyevich; [illegible]
PLESHKOV, Leonid Yefimovich; [illegible]
Yevgeniy Naumovich; [illegible]

[Transportation in metallurgical plants] Transport na metallurgicheskikh zavodakh. [illegible] 412 p. [illegible]

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

USSR / General and Specialized Zoology - Insects 0-7

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 23264

Author : Gokhelashvili

Inst : On the Problem of the Studying of Cutworm Moth Bio-ecology.

Orig Pub : Tr. Opyt. st. plodovodstva AN GruzSSR, 1956, 4, 121-131

Abstract : In Kartli fruit orchards the following cutworm moths are harmful: Monima (Taeniocampa) stabilis, M. incerta, M. gracilis and M. pulverulenta, Calymnia tratrapezina, Graphiphora c-nigrum and Scopelosoma satellitia. The most harmful of them, 4 species of p. Monima, develop in one generation, winter in a chrysalis stage underground, preferably near a rootneck, at a depth of 5-15 cm. The flight of moths comes in the spring. The beginning of flight is at 5°, the maximum of flight is at 15°. After 6-17 days the moths deposit eggs in groups on stems and branches. The egg stage lasts 14-33 days. Then birth of caterpillars takes place during the period when apple inflorescence appears. The caterpillar stage lasts 36-39 days. The caterpillars devour buds, small buds, ovaries, fruit and leaves of fruit trees (of apple , pear, sour and sweet cherries

Card : 1/2

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NAYDENOV, G., aspirant; SOLYANIK, S.; RADCHENKO, Yu., assistent; PAPOYAN, S., aspirant; GOKHELASHVILI, K., kand.biolog.nauk; LEVCHENKO, [illegible], kand. sel'skokhoz.nauk; ARUTYUNYAN, Kh.; MOVSESYAN, [illegible]; MILOV, M., aspirant

Brief news. Zashch.rast.ot vred.i bol. 10 no.4:54-56 '65. (MIRA 18:6)

1. Ukrainskiy institut oroshayemogo zemledeliya, Kherson (for Naydenov). 2. Predsedatel' kolkhoza imeni Zhdanova, Chuguyevskogo rayona, Khar'kovskoy oblasti (for Solyanik). 3. Khar'kovskiy sel'skokhozyaystvennyy institut (for Radchenko). 4. Armyanskiy institut zashchity rasteniy (for Papoyan). 5. Skrinskaya opytnaya stantsiya plodovodstva (for Gokhelashvili). 6. Pedagogicheskiy institut, g. Birsk, Bashkirskaya ASSR (for Levchenko). 7. Leninakanskaya selektsionnaya stantsiya (for Arutyunyan, Movsesyan). 8. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya, Moskva (for Milov).

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHELASHVILI, R. D., Cand Biol Sci -- (diss) "Results of the study of the most important forms of stem borers in fruit gardens and the testing of measures of attack against the pests under the conditions of Kartli (Eastern Georgia)." Tbilisi, Georgian Agricultural Inst Press, 1960. 18 pp; (Ministry of Agriculture Georgian SSR, Georgian Order of Labor Red Banner Inst of Agriculture); 150 copies; free; (KL, 17-60, 146)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

BAKHAREV, A.P.; GOKHMENSON, B.S.

Results of testing high-capacity DT-70 caterpillar tractors. Trakt. i sel'khozmash. no.1:4-6 Ja '58. (MIRA 11:4)
(Caterpillar tractors)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"
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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

L 5307-66 EWT(m)/EWP(t)/EWP(k)/EWP(b)/EWA(h)/EWA(c) JD/HW
ACC NR: AP5025674 SOURCE CODE: UR/0286/65/000/018/0019/0019

AUTHORS: Gokhfel'd, D. A.; Laptevskiy, A. G.

ORG: none

TITLE: A method for obtaining corrugations. Class 7, No. 174600

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 19

TOPIC TAGS: metalworking, body of revolution, metal industry, corrugation

ABSTRACT: This Author Certificate presents a method for obtaining corrugations on bodies of revolution. To insure a positive formation of corrugations in practically any location upon the surface of a body of revolution, intensive heating is applied at the proper location, while the adjacent zones are simultaneously chilled. The heated zone is continuously moved along the surface of the body of revolution to the desired location of the corrugations.

SUB CODE: IE, MM/ SUBM DATE: 24Feb64/ ORIG REF: 000/ OTH REF: 000

Card 1/1

UDC: 621.7.04--462.2/3--408.8

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHFEL'D, D.A., kand. tekhn. nauk; GRINENKO, N.I., inzh.; CHERNYSHEV, V.M., inzh.

Investigating static stresses in chassis frames of high power tractors. Sbor. st. CHPI no.11:5-19 '57. (MIRA 11:4)
(Strains and stresses) (Tractors)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHFEL'D, D.A., kand. tekhn. nauk.

Elastic-plastic condition of disks resulting from the uneven heating.
Sbor. st. CHPI no.11:48-58 '57. (MIRA 11:4)
(Gas turbine disks)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

30371
S/[illegible]/61/000/00[illegible]/C02/006
D[illegible]/D302

24 4200 1327

AUTHOR: [illegible], D.A., Candidate of Technical Sciences [illegible]

TITLE: On the possibility [illegible] increased plast[illegible] [illegible] due to cyclic temperature effects

SOURCE: Raschety na prochnost'; teoreticheskiye i eksperimental'[illegible] [illegible] mashinostroi[illegible] [illegible] Sbornik statey [illegible] 1961, [illegible]

TEXT: The article considers the problem of compliance [illegible] conditions of repeated heating and takes into account the yield limit [illegible] corresponding temperature. It assumes a linear relationship [illegible] the increase of plastic deformation with each cycle to be revealed [illegible] is of interest with regard to the phenomenon of thermal fatigue. The [illegible] tically undetermined system of a central bolt, [illegible], and coaxial tube [illegible], joined by plates, [illegible] of Fig. 1 are treated as nondeformed. The bolt [illegible] subject to periodic temperature changes, and has a larger [illegible] than the tube. The author [illegible] an analysis of stresses and deformations [illegible]

Card 1/4

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30371

S/[illegible]/61/00[illegible]/00[illegible]/00[illegible]
D[illegible]/D302

On the possibility of

in the above. This results in the equation of limit temperature of compliance t_{ln} = [illegible] where [illegible] time. For simplification purposes, the diagram of stress [illegible] When [illegible] and t_{ln} are defined by

$$[illegible]$$

and

$$[illegible]$$

[illegible]

Card [illegible]

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On the possibility of ...

plasticheskikh svoistv materialov (Calculation of Structures with Consideration of Plastic Properties of Materials), Gosstroyizdat, 1954). During the analysis of the system shown in Fig. 1, four limit conditions of stress are found. In the graph with the coordinates σ and t, the above corresponds to lines that bound the zone of possible elastic states. The instances of combined effect of cyclic temperature and load action are of interest. The same system is considered with additional load due to tensile force P. The graph of possible states is drawn then in three coordinates of σ, σ_p and t, where σ is the selfstressed condition; σ_p is the stress produced by the external load and t is the temperature. Four planes, two of which are parallel and the remainder intersecting, form a wedge of the zone of possible states. When $\sigma_p = 0$, then the cyclic temperature effect on element 1 produces an increase of compressive deformation. The presence of constant tensile stress causes an increase of deformation due to tension with each cycle. The discussed compliance of the system subject to periodic temperature effect and made with regard to the changes in yield limit with temperature allowed the undirectional increase of plastic deformation per cycle to be revealed. This may also explain the causes of thermal fatigue on the basis

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GOKHFEL'D, D. A.

PHASE I BOOK EXPLOITATION SOV/6086

Nauchnoye soveshchaniye po teplovym napryazheniyam v elementakh turbomashin. 2d, Kiyev, 1961.

Teplovyye napryazheniya v elementakh turbomashin; doklady nauchnogo soveshchaniya, vyp. 2 (Thermal Stresses in Turbomachine Parts; Reports of the Scientific Conference, no. 2). Kiyev, Izd-vo AN UkrSSR, 1962. 174 p. 1800 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut mekhaniki.

Resp. Ed.: A. D. Kovalenko, Academician, Academy of Sciences UkrSSR; Ed.: T. K. Remennik; Tech. Ed.: A. M. Lisovets.

PURPOSE: This collection of articles is intended for scientific workers and turbine designers.

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"
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COVERAGE: The book contains 18 articles dealing with investigations connected with thermal stresses in turbine components. Individual articles discuss thermoelasticity, thermoplasticity, thermal conductivity, and temperature fields. No personalities are mentioned. References accompany 17 articles. The conference recommended broadening the theoretical and experimental investigations of aerothermoelastic and aerothermoplastic problems, the development of investigations of general problems of the theory of thermoelasticity and thermoplasticity based on the thermodynamic principles of reversible and nonreversible processes, the development of effective calculation methods for thermal stresses taking into account plastic deformations and creep in thin- and thick-walled structural members under stationary and nonstationary operating conditions, the development of experimental-research methods for thermometry and tensiometry in connection with modern operational conditions of mechanical structures, and the broadening of investigations of problems in the thermostrength of structures, especially of those operating under conditions of frequent and sharp temperature changes.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

ACCESSION NO: AP3002814 S/0207/63/000/003/0107/0110

AUTHORS: Gokhfel'd, D. A. (Chelyabinsk); Yermakov, P. I. (Chelyabinsk)

TITLE: Limits of application of thick-walled nonuniformly heated pipes

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1963, 107-110

TOPIC TAGS: thick walled pipe, pipe strength, tube strength, heated thick walled pipe, high temperature pipe application

ABSTRACT: Based upon the stress distribution in a thick-walled pipe and a temperature distribution $t = t_b + t_1 \frac{\ln \rho}{\ln k}$ [illegible], the total stress distribution due to pressure and temperature was derived as

$$\sigma_r = p\left(1 - \frac{1}{\rho}\right) + (m - q)\left(1 - \frac{1}{\rho} + \delta \ln \rho\right),$$

$$\sigma_\theta = p\left(1 + \frac{1}{\rho}\right) + (m - q)\left[1 + \frac{1}{\rho} + \delta(2 + \ln \rho)\right],$$

$$\sigma_z = p + 2(m - q)[1 + \delta(1 + \ln \rho)],$$

where $\left(q = t_1^0 \frac{k}{1 - k},\ t_1^0 = \frac{\alpha E t_1}{2\sigma_s(1 - \nu)},\ \delta = \frac{1 - k}{k \ln k}\right)$.

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RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

ACCESSION NO: AP3002814

Assuming that the yield stress remains constant until $t \leq t_0$ and decreases linearly beyond this temperature, the Mises criterion leads to $\lambda = \frac{2(1-\nu)\sigma_s}{qE}$

$$(\sigma_r - \sigma_\theta)^2 + (\sigma_\theta - \sigma_z)^2 + (\sigma_z - \sigma_r)^2 = 2(1 - \lambda q \delta \ln \rho)^2 .$$

Combining the above equations, the equation of the surface under which the pipe does not fail was derived. This surface was found to have the shape of an elliptic cone. The outside radius of the pipe forms a cylinder in the m-p-q coordinate system so that all actual possible conditions under which the pipe does not fail lie in the volume formed by the intersection of the cone and the cylinder. Orig. art. has: 3 figures and 15 formulas.

ASSOCIATION: none

SUBMITTED: 24Dec62 DATE ACQ: 16Jul63 ENCL: 00

SUB CODE: ML, JE NO REF SOV: 006 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GONFEL'D, D.A. (Chelyabinsk):

"On the accommodation of elastic-plastic [illegible] under the action of temperature field and external load"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

...day, September 26, 2002 CIA-RDP86-00513R000515610003-0" CIA-RDP86-00513R000515610003-0

ACCESSION NR: AT4043332 S/2572/64/000/010/0137/0147

AUTHOR: Gokhfel'd, D. A. (Candidate of technical sciences); Yermakov, P.I. (Engineer)

TITLE: Adaptability of thick-walled spherical vessels to the recurrent effects of a temperature field.

SOURCE: Raschety* na prochnost'; teoreticheskiye i eksperimental'ny*ye issledovaniya prochnosti mashinostroitel'ny*kh konstruktsiy. Sbornik statey, no. 10, 1964, 137-147

TOPIC TAGS: recurrent temperature field, stressed hollow sphere, hollow sphere, hollow sphere adaptability, yield point, elastic state area, adaptability diagram, variable pressure adaptability problem, variable temperature adaptability problem, hollow sphere

ABSTRACT: The report presents an analysis of the adaptability of a hollow sphere stressed by internal pressure and subjected to recurrent thermal influences exerted by the working medium it contains. Heating and cooling are assumed to proceed at a relatively slow rate, hence thermal shock is not considered. The solution considers the effect of temperature on yield point, other physical and mechanical characteristics being assumed constant in view of their relatively insignificant change with temperature. Operating with dimensionless magnitudes and relating stresses, in part, to values for yield point at normal temperatures, the authors develop basic equations for internal pressure stresses, temperature distribution

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L 3184-66 EPA(s)-2/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HM/HW

ACCESSION NR: AP5009669 UR/0135/65/000/004/0004/0005
621.791.011

18
03

AUTHOR: Gokhfel'd, D. A. (Candidate of technical sciences)

TITLE: The mechanism of strain accumulation under recurrent effects of a travelling heat source

SOURCE: Svarochnoye proizvodstvo, no. 4, 1965, 4-5

TOPIC TAGS: welded pipe, joint self hardening, travelling heat source, strain accumulation pattern

ABSTRACT: The report analyzes the reinforcement of a pipe girth weld by repetitive nonpressure heating of the joint. A simplified approach, i.e. a system of identical parallel rods representing the pipe area adjacent to the weld, illustrates the feasibility of linear strain accumulating with each cycle in recurrent passes of a travelling heat source and is employed to clarify the phenomena associated with the strain selfhardening of the seam in welding. Orig. art. has: 2 figures and 17 formulas.

ASSOCIATION: Chelyabinskiy politekhnicheskiy institut (Chelyabinsk Polytechnic Institute)

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

L 3184-66

ACCESSION NR: AP5009669

SUBMITTED: 00 ENCL: 00 SUB CODE: IE

NO REF SOV: 002 OTHER: 000

ec

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

L 7074-66 EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k)/ETC(m) WW/EM

ACC NR: AP5027722 SOURCE CODE: UR/0310/65/000/005/0078/0082

AUTHOR: Gokhfel'd, D. A. (Chelyabinsk)

ORG: none

TITLE: On the calculation of rotating disks in limiting states

SOURCE: Mashinovedeniye, no. 5, 1965, 78-82

TOPIC TAGS: yield stress, ultimate strength, thermal stress

ABSTRACT: A theoretical study was made to determine the limiting states of rotating disks, with failures occurring along the disk radii. The first limiting speed is obtained from equilibrium conditions and is given by

$$\omega_{01}^2 = \frac{\int_a^b \sigma_{rT} h\, dr}{\rho(I + \lambda F_b)},$$

$$I = \int_a^b hr^2 dr; \quad \lambda = \sigma_{rb} / \rho\omega^2; \quad F_b = h_b b;$$

where σ_{rT} is the yield point stress. The second limiting speed is calculated for

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UDC: 621.001.24

nw

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

L 60964-65 EWA(h)/EWP(k)/EWT(d)/EWT(m)/EWA(d)/EWP(w)/EWI(w) Pf-4/Peb
EM/WW

ACCESSION NR: AP5017124 UR/0198/65/001/006/0026/0032

AUTHOR: Gokhfel'd, D. A. (Chelyabinsk)

TITLE: Progressive destruction under conditions of thermal cycling

SOURCE: Prikladnaya mekhanika, v. 1, no. 6, 1965, 26-32

TOPIC TAGS: temperature distribution, pressure distribution, mechanical strength, elastic deformation, plastic deformation, cyclic rate

ABSTRACT: The conditions under which progressive destruction of a structure can be attained were analyzed. Exact conditions are derived for progressive destruction under cyclic thermal and pressure loadings. The case of a spherical shell is discussed first. The temperature distribution in the shell is given by

$$T = T_1 + \frac{k(1-\rho)}{\rho(1-k)}(T_2 - T_1).$$

Expressions are given for the radial and azimuthal stress limit points, and the Mises Tresk-San-Venan plasticity condition is introduced

$$\sigma_\theta - \sigma_r = \pm 1.$$

It is shown that for the sphere the radius ρ which divides the failed region from

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

ACCESSION NR: AP5017124

the undeformed region is given by $\gamma = \sqrt{\delta}$ where $\delta = \frac{3k^2}{1 + k + k^2}$

Using statistical conditions for the stress distribution, the following exact conditions are derived as conditions for progressive destruction

$$\frac{p}{p_0} + D\frac{q}{q_0} = 1,$$

$$D = \frac{2k^2(\delta^2 - 3\delta + 2\sqrt{\delta})}{3\delta(k^3 - \delta)\ln k}.$$

As a second example, a thick-walled tube is considered with temperature distribution

$$T = T_b + \frac{\ln \varrho}{\ln k}(T_a - T_b).$$

The corresponding dividing radius and progressive destruction conditions are given by $\gamma = \frac{1}{\sqrt{\delta}}$ and

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ACCESSION NR: AP5017124

$$\frac{p}{p_0}+D\frac{q}{q_0}=1,$$

$$p_0=\frac{1}{2\delta};\quad q_0=\frac{k^2}{1-k^2\delta};\quad D=\frac{1-\delta+\delta\ln\delta}{(k^2\delta-1)\ln k}$$

respectively. Numerical examples are given to illustrate the points. For an additional axial force on hollow cylindrical rods the following is obtained as the radius dividing the region of elastic failure from the undeformed region

$$\gamma=\exp\frac{1-\delta}{2\delta}.$$

Orig. art. has: 19 formulas and 4 figures.

ASSOCIATION: Chelyabinskiy politekhnicheskiy institut (Chelyabinsk Polytechnical Institute)

SUBMITTED: 04Oct64 ENCL: 00 SUB CODE: AE, AS

NO REF SOV: 005 OTHER: 002

Card 3/3 bjp

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

[illegible], B.A., [illegible]

[illegible] temperature field and loading. [illegible] 19:1)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

L 25836-66 EWT(m)/EWP(w)/EWA(d)/EWP(v)/T-2/EWP(t)/EWP(k)/ETC(m)-6 LIP(c)
ACC NR: AP6008700 JD/EM (N) SOURCE CODE: UR/0380/65/000/006/0061/0068

AUTHOR: Gokhfel'd, D. A. (Chelyabinsk)

ORG: none

TITLE: Turbine disk strength during transient working regimes

SOURCE: Mashinovedeniye, no. 6, 1965, 61-68

TOPIC TAGS: turbine disk, turbine rotor, thermal stress, computer, alloy/ ETsVM Ural-2 computer, EI437B alloy

ABSTRACT: The thermal and centrifugal stresses which arise during transient operation of turbine disks are considered in order to provide a method for realistically calculating the disk strength. The equations of stress are briefly formulated, and the two modes of failure, namely, local fatigue due to alternating sign plastic flow and progressive destruction due to residual stress accumulation, are discussed in some detail. An equation is derived for the limit curve in the $p/p_0 - q/q_0$ coordinates (where $p = \rho\omega^2 b^2/\sigma_*$ is the loading parameter, and $q = \alpha E T_1/\sigma_*$ is the temperature field parameter, and p_0 and q_0 are reference values), and a sample curve is given for a plane disk operating under assumed transient speed and temperature conditions. The author's previous work (K raschety vrashchayushchikhsya diskov po predel'nomu sostoyaniyu. Mashinovedeniye, 1965, No. 5) is used in the arguments. The

Card 1/2 UDC: 62-226

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

L 25836-66

ACC NR: AP6008700

use of two coefficients of strength margin, one for local and one for overall disk strength, is recommended, and an example is quoted for an alloy EI437B disk. Because of the large number of calculations required for obtaining the limit curve, the equations were programmed for an ETsVM "Ural-2" computer. Orig. art. has: 18 formulas and 4 figures.

SUB CODE: 13/ SUBM DATE: 26Feb65/ ORIG REF: 009/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

17(2) SOV/1[illegible]-58-11-5/50

AUTHORS: Barskiy, B.I., Colonel of the Medical Corps, Candidate of Medical Sciences; Blyumberg, N.A., Candidate of Medical Sciences; and Gokhfel'd, E.T.

TITLE: Certain Features of the Clinical Course of Acute Hepatites

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 11, pp 22 - 25 (USSR)

ABSTRACT: The authbr bases his article on the analysis of 200 case reports of patients suffering from acute hepatitis (Botkin's disease) and refers to data of Pashutin, M.D. Tushinskiy, M.Ye. Vol'skiy, M.A. Yasinovskiy, A.S. Berlyand, A.A. Gol'denshteyn, G.I. Altukhova, G.I. Burchinskiy, M.I. Teodori, M.I. Yakubovich, M.K. Tarlo, F.V. Terenchenko, M.A. Yasinovskiy, G.I. Alkhutova, M.Ye. Vol'skiy, A.L. Myasnikov, K.P. Zak, I.A. Eskin, Ye.M. Tareyev, I.P. Pavlov, M.K. Petrova, O.I. Moiseyeva and others. In cases with usual or average acuteness of Botkin's

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

Certain Features of the Clinical Course of Acute Hepatites

disease, in some patients a trend to eosinophilia was obvious, whereas in serious forms of this disease a reverse phenomenon- a drop of eosinophiles up to aneosinophilia - was observed. Data on three patients are given which point to a considerable leukocyt osis in the period of the development of the leukemoid reaction which was accompanied by pronounced eosinophilia, lympho- and monopenia and increased E.S.R. Relapses of acute hepatites of toxico-allergic character are often caused by aggravation of chronic tonsillitis. The author criticizes the fact that physicians seldom take into account the effect of a local focus on the pathogenese of acute hepatites and its relapses so that the treatment is not always rational. He thinks a well timed elimination of local suppurative foci in the complex treatment a good prophylactic measure against recidivation. There is 1 table.

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BARSKIY, B.I., kand.med.nauk, KRENTEL', L.S., kand.med.nauk, RLYUMBERG, N.A. kand.med.nauk., GOKHFEL'D, B.T. (Moskva)

Antibiotic treatment of cholecystitis in young subjects.
Klin.med. 36 no.11:148-151 N '58 (MIRA 11:12)
(CHOLECYSTITIS, ther.
antibiotics in young subjects (Rus))
(ANTIBIOTICS, ther. use
cholecystitis in young subject (Rus))

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

MEN'SHIKOV, A.; GOKHFEL'D, I.

Transmitting duties of technical councils to sections of the scientific technological society. NTO 2 no.3:45-46 Mr '60. (MIRA 13:6)

1. Predsedatel' soveta pervichnoy organizatsii Nauchno-tekhnicheskogo obshchestva zavoda "Bol'shevik" (for Men'shikov). 2. Uchenyy sekretar' soveta Nauchno-tekhnicheskogo obshchestva, Leningrad (for Gokhfel'd).
(Leningrad--Machinery industry--Technological innovations)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

S/056/62/043/001/027/056
B104/B102

AUTHORS: Meyman, N., Gokhfel'd, I.

TITLE: Solution of equations of the Chew-Mandelstam type

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 1(7), 1962, 181 - 184

TEXT: The amplitude $A(\nu)$ of the interaction of neutral mesons satisfies the equation

$$A(\nu) = A(0) + \frac{1}{\pi}\int_0^{\infty}\sqrt{\frac{\nu'}{1+\nu'}}\left(\frac{1}{\nu'-\nu}-\frac{1}{\nu'}\right)|A(\nu')|^2 d\nu' + \frac{\nu}{\pi}\int_{-\infty}^{-1}\left(\frac{1}{\nu'-\nu}-\right.$$
$$\left.-\frac{1}{\nu'}\right)\frac{d\nu'}{\nu'}\int_0^{-\nu'-1}\sqrt{\frac{\nu''}{1+\nu''}}|A(\nu'')|^2 d\nu'' . \qquad (1)$$

in the theory of Chew-Mandelstam (UCRL-8728, April 1959). $\nu = q^2/\mu^2$; q is the momentum in the c.m.s. The function $A(\nu)$ is investigated in the complex plane of ν with the two sections $(-\infty; -1)$ and $(0; +\infty)$. It is

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assumed that $A(\nu)$ is limited for $\nu \to \infty$. The equation only has a non-oscillating solution at infinity in the cases which have no physical sense (when the coupling constant is negative). This result is obtained from the general properties of analytical functions and should be of some methodical importance. There are 4 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and Experimental Physics of the Academy of Sciences USSR)

SUBMITTED: January 27, 1962

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHFEL'D, M.V.

Automatization of mine conveyer lines. Sbor.nauch.trud. KHGI 5:43-64 '58. (MIRA 14:4)

(Conveying machinery)
(Automatic control)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

MAYMIN, Semen Rafailovich; POLTAVA, Leonid Ivanovich; GOKHFEL'D, M.V., dots., otv. red.; TRET'YAKOVA, AN., red.; SEMASHKO, Yu.Yu., tekhn. red.

[Electric substations and networks on mine surfaces] Podstantsii i seti na poverkhnosti rudnikov. Khar'kov, Izd-vo Khar'kovskogo univ. 1961. 255 p. (MIRA 16:7)
(Electricity in mining)
(Electric power distribution)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHLER, G.M. (Tashkent); OMELIN, N.N. (Tashkent)

Use of deep well pumps. Vod. i san. tekh. no. 4:37-38 Ap '61.
(MIRA 14:4)

(Kibray (Uzbekistan)--Pumping machinery)
(Water--Supply engineering)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHLER, G.S.

The shape of eggs of the tapeworm Diphyllobothrium latum in a fresh preparation. Lab.delo 2 no.6:26-27 N-D '56. (MLRA 9:12)
(TAPEWORMS) (EMBRYOLOGY)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

[illegible], Galina [illegible]ovna; [illegible], [illegible], [illegible] med. nauk, red.

[Sanitary culture to the masses! Educational visual aid on the methodology of sanitary culture] Sanitarnuiu kul'turu - v massy! Uchebno-naglIadnoe posobie po metodike sanitarnogo prosveshcheniia. Moskva. In-t sanitarnogo prosveshcheniia M-va zdrav. okhraneni [illegible] SSSR, 19[illegible]. 33 p.
[illegible]

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

BIRYUKOV, D.A., prof.; SMORODINTSEV, A.A., prof.; SELIVANOV, A.A., kand. med. nauk, starshiy nauchnyy sotrudnik; IL'IN, G.I., kand. med. nauk; PIGAREVSKIY, V.Ye., doktor med. nauk; GOKHLERNER, G., vrach

Grippe. Nauka i zhizn' 30 no.4:72-78 Ap '63. (MIRA 16:7)

1. Direktor Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad, deystvitel'nyy chlen AMN SSSR (for Biryukov). 2. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad (for Selivanov). 3. Otdel patologicheskoy anatomii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad (for Il'in).

(INFLUENZA RESEARCH)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

GOKHLERNER, G.B. (Moskva)

Sanitary education as a part of ideological work. Fel'd i akush. 28 no.1:26-30 Ja'63. (MIRA 16:7)

1. Iz TSentral'nogo instituta sanitarnogo prosveshcheniya.
(HEALTH EDUCATION) (COMMUNIST EDUCATION)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHLERNER G. V.

USSR/Medicine - Antibiotics Mar 51

"V. A Manassein (1841 - 1901)," G. V. Gokhlerner

"Klin Med" Vol XXIX, No 3, pp 15-18

Reviews life and activity of Prof V. A. Manassein, who according to author discovered action of antibiotics and applied newly discovered principle practically. Cites paper, "On the Relation of Some Bacteria to Penicillium Crustaceum and the Effect of Some Agents on the Development of the Latter" publ by Manassein in late 1860's.

181T53

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHLERNER, G., vrach

About salt. Nauka i zhizn' 29 no.9:76 S '62. (MIRA 15:10)

(SALT IN THE BODY)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHMAN, A.I. (Kiyev)

Clinical use of a porous rubber sponge, a new alloplast. Vrach.delo no.12:1337-1339 D '57. (MIRA 11:2)

1. Khirurgicheskoye otdeleniye (zav. - A.I.Gokhman) Vtoroy Podol'skoy bol'nitsy
(SURGERY, PLASTIC)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

L 61056-65 EPF(c)/EPA(s)-2/EWP(j)/EWT(m)/T Pc-4/Pr-4/Ps-4 RM/WW

ACCESSION NR: AP5017878 UR/0286/65/000/011/0130/0130
629.132

AUTHOR: Gokhman, A. Kh.; Spitsyn, I. P.; Konstantinov, L. I.; Intinov, V. M.; Vaynshteyn, G. M.; Polyanker, A. G.

TITLE: Dirigible hull. Class 62, No. 171738

SOURCE: Byulleten' izobreteniy i tovarnykh znakov. no. 11, 1965, 130

TOPIC TAGS: dirigible, dirigible hull, dirigible hull construction

ABSTRACT: An Author Certificate has been issued for a dirigible hull featuring increased rigidity and uniform distribution of stresses. It is composed of rhombic panels fabricated from a foam plastic filler sandwiched between fiberglass walls (see Fig. 1 of the Enclosure). The panels are individually fastened together and have reinforced edges. Orig. art. has: 1 figure. [KT]

ASSOCIATION: none

SUBMITTED: 26Aug63 ENCL: 01 SUB CODE: AC, MT

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4060

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

L 61056-65

ACCESSION NR: AP5017878

ENCLOSURE: 01

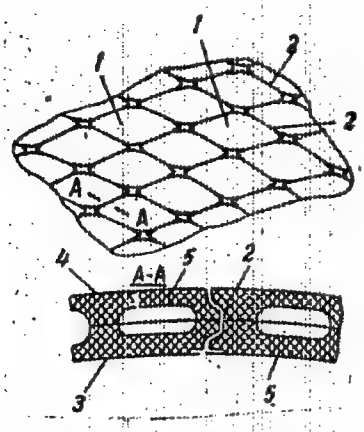

Fig. 1. Fiberglass and foam-plastic dirigible hull

1 - Rhombic panels; 2 - edges for connecting the panels; 3 - inner fiberglass-hull wall; 4 - outer fiberglass-hull wall; 5 - foam-plastic filler.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

S/114/62/000/001/003/006
E194/E435

26.2122

AUTHOR: Gokhman, V.M., Engineer

TITLE: Calculation of a straight row of solid profiles by the method of singularities with the angle of attack

PERIODICAL: Energomashinostroyeniye, no.1, 1962, 23-28

TEXT: In work on the flow of an ideal fluid over a straight row of profiles, it is assumed that the profile forms a closed stream line with two branching points, one at inlet and the other at discharge. Flow around the profile is potential. The effect of the profile on the flow is represented mathematically by considering it to contain singularities, namely curls of γ and sources and sinks of q. The sum of the intensities of all the swirls is equal to the circulation Γ which should be introduced into the flow by the profile and the sum of the intensities of all sources and sinks is zero. For convenience, the singularities are located along a line of length L. The curls are expressed in the form of a series

$$\gamma(s) = A_0 \sqrt{\frac{1+s}{1-s}} + A_1 \sqrt{1-s^2} + A_2 s \sqrt{1-s^2} \ldots, \qquad (1)$$

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where s is the distance along the line of singularities (at inlet $s = L/2$ and at discharge $s = -L/2$). Hitherto, a requirement that is incorrect in principle has been applied to the line of singularities (referred to as the framework of the profile) which states that there is no flow through any of the points on the line, i.e. $W_n' + W_n'' = 0$ (see Fig.1), where $W_n' = 0.5q$ and $W_n'' = -0.5q$ are normal velocities corresponding to the working and rear sides of the line. In previous work it was also assumed that the sum of the sources and sinks being zero is a necessary and sufficient condition for the existence of a closed streamline round the framework. It is shown that this is erroneous. The idea stems from the belief that it is possible, without a break, to extend the framework along the streamline leading from point A to point K (see Fig.2), thus dividing the profile into a working and rear cavities without flow through from one to the other. The article shows that this is not possible and that there will be a flow of magnitude ΔQ_x. In deriving new necessary and sufficient conditions for the existence of a closed streamline round the framework, the meaning of the term framework is redefined

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

so that it constitutes a section of the line on which the singularities are distributed and on which a flow through is possible at any point, in contrast to the previous assumptions. The new conditions then are: 1) that a series of connected curls should satisfy Chaplygin's condition that $\gamma = 0$ when $x = -1.00$; 2) a point source located at the point $x = 1.00$ should have an intensity of $Q_0^* > 2\Delta Q_x$ or should be taken out to the point tangential to its extension $x_1 > 1.00$; 3) in every point in the framework $x\left[-1 < x \leqslant 1 + (\cdot\right]$

$$\frac{1}{2}\left|\int_{\xi}^{1.0+Q^*} q(x)\,dx + Q_0^*\right| - \left|\int_{\xi}^{1+Q^*} \overline{w}_y\,dx + \Delta Q_x\right| > 0. \quad (7) \qquad (7)$$

4) the sum of all sources and sinks is zero; 5) denote by $x_2 = -1 - \rho_2^*$ the coordinate of the point of intersection of the tangent with the extension at discharge from one of the branches bifurcated at point K_2 of the streamline and denote by ΔQ_{x_2} the flow through this extension, then

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$$\int_{-1-\varepsilon_2^*}^{1+\varepsilon^*} \bar{W}_y dx + \Delta Q_x + \Delta Q_{x_2} = 0, \qquad (9)$$

6) the distributed sources and sinks in the region $x = -1.00$ should agree with the condition $q(x) \leq 0$. In the case where the first term of Eq.(1) is missing, i.e. $\gamma = 0$ when $x = 1.00$, it is possible to ignore the value ΔQ_x but when this first term is included, i.e. the angle of attack is included, the value of ΔQ_x has a significant magnitude and must be considered. In practical examples it is convenient to evaluate $\bar{W}_y$ (the rate of overflow through the framework at the point $x = 1.00$) from a series

$$\bar{W}_y = c_1 + c_2 x + c_3 x^2 + c_4 x^3 \qquad (71)$$

of which the coefficients should correspond to the conditions expressed by Eq.(9). Fig.6 shows the profile of a blade for a high head axial rotor turbine runner and a pressure diagram over the profile. This blading was designed with $\bar{T}_0 = 0.71$ and

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

$l/t = 1.00$ which gives a less bent profile than would be obtained without consideration of the angle of attack. The discharge part of the profile is less heavily loaded which should reduce the tendency to cavitation. The method described is suitable for use in designing the runners of high head water turbines. There are 6 figures.

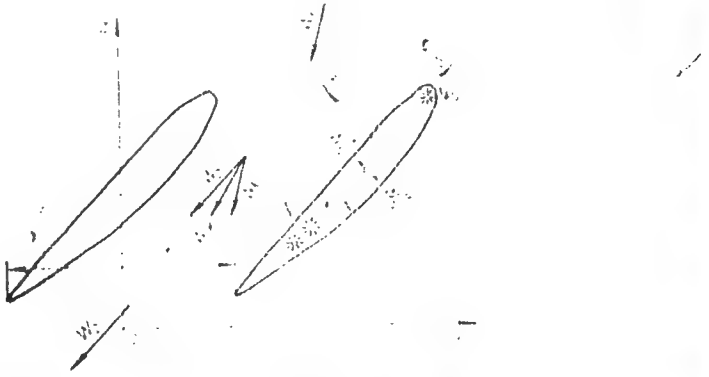

Fig.1. Upright grid of body profiles.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHMAN, A. Y., [illegible] -- (dis.) "Riemannian nonholonomous geometry," Saratov, 1958, 9 pp (Saratov State Univ im Chernyshevskiy)

(KL, 2-60, 110)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

AUTHOR: [illegible], A. V. [illegible], 4

TITLE: On the Inner Geometry of the Rheonomic Non-Holonomic Sy[illegible]

PERIODICAL: Doklady Akademii nauk SSSR, 19[illegible], Vol 1[illegible], Nr [illegible], pp [illegible] (USSR)

ABSTRACT: [illegible] considers [illegible] in which the motion [illegible] a point are identical with the motion [illegible] system with rheonomic linkages. [illegible] inner-geometrical properties, which [illegible] partly [illegible] results [illegible] A. Wunderlich [Ref 1] are repeated.
There are [illegible] references, [illegible] of which is Soviet, and [illegible] Czecho-Slovakian.

ASSOCIATION: Saratovskiy gosudarstvennyy universitet imeni N. G. Chernyshevskogo (Saratov State University imeni N. G. Chernyshevskiy)

PRESENTED: January 27, 1959, by I. G. Petrovskiy, Academician

SUBMITTED: January 26, 1959

Card 1/1

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHMAN, A.V.

Internal geometry of rheonomic spaces. Izv. vys. uchob. zav.; mat. no.3:14-26 '61. (MIRA 14:7)

1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo.
(Geometry, Non-Euclidean)

RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

1335

S/140/62/000/006/001/006
E031/E435

AUTHOR: Gokhman, A.V.

TITLE: On the geometrization of mechanical systems with rheonomous nonlinear, nonholonomic constraints

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika. no.6, 1962, 34-44

TEXT: The motion of a mechanical system of the above type corresponds to a curve in a full rheonomous space $^{*}T_{n+1}$ [in which the energy has the form

$$T = \frac{1}{2}\, {}^{*}a_{\bar{\alpha}\bar{\beta}}\, \dot{\xi}^{\bar{\alpha}}\, \dot{\xi}^{\bar{\beta}} \qquad (\bar{\alpha},\bar{\beta}, = 1,2,\ldots,n+1)\ ]$$

with metric tensor $^{*}a_{\bar{\alpha}\bar{\beta}}$, at each point of which the tangent vector $\dot{\xi}^{\bar{\alpha}}$ satisfies a system of independent nonlinear equations in the generalized velocities, representing the constraints. Geometrically, the theory of these mechanical systems can be constructed if with the field of local force m-surfaces corresponding to the constraints there is associated a field of local force hyperstrips. The field theory of local hyperstrips

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On the geometrization ... S/140/62/000/006/001/006
E031/E435

was constructed by V.V.Vagner (Tr. sem. po vekt. i tenz. analizu, no.8, 1950, 197-272) and a considerable part of this paper is devoted to recapitulating the theory. On considering the motion of a point in $^{*}T_{n+1}$ Jourdain's (Gourdain) principle is used as a starting point. Geometrically, this principle states that the projection of the acceleration vector on the tangent plane to the constraint surface is equal to the projection of the force vector on the same plane. The equations of motion for the system are derived and it is shown that the same equations can be obtained starting from the Gauss-Hertz principle which in the present context states that a certain function of the acceleration has the least value.

ASSOCIATION: Saratovskiy gosudarstvennyy universitet im. N.G.Chernyshevskogo (Saratov State University imeni N.G.Chernyshevskiy)

SUBMITTED: November 23, 1959

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

S/0140/64/000/001/0028/0039

ACCESSION NR: AP4018047

AUTHOR: Gokhman, A. V. (Saratov)

TITLE: Geometric interpretation of the motion of a variable mass mechanical system

SOURCE: IVUZ. Matematika, no. 1, 1964, 28-39

TOPIC TAGS: variable mass mechanical system, scleronomous holonomic system, nonholonomic relation, transformation of parameters, geometrization of mechanical system, Riemann space, covariant tensor, rheonomic space

ABSTRACT: The author proposes a geometric interpretation of the motion of a system with mass depending on time, and of the position of the system as a point of unit mass in a space which is a special case of so-called rheonomic space. Geometric interpretation of the motion of a mechanical system consists of constructing a geometric space for it (an n-dimensional manifold on a definite structure), the equations of motion of a point of which coincide with the equations of motion of this system. The geometric space must be such that the allowable transformations of its coordinate systems correspond to the allowable transformations of the parameters characterizing the motion of the mechanical system. Then the equations

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ACCESSION NR: AP4018047

of motion of a point in this space, described in tensor or another invariant form, will be invariant with respect to transformations of the parameters of the system. Orig. art. has: 62 formulas.

ASSOCIATION: none

SUBMITTED: 12Feb63	DATE ACQ: 18Mar64	ENCL: 00
SUB CODE: AI	NO REF SOV: 011	OTHER: 013

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
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L 48574-65 EWT(m)/EWP(w)/EWA(d)/EWP(v)/EWP(k) Pf-4 EM

ACCESSION NR: AR5009490 S/0124/65/000/003/V043/V043

SOURCE: Ref. zh. Mekhanika, Abs. 3V323

AUTHOR: Gokhman, A. V.

TITLE: The geometry of beam column statics

CITED SOURCE: Tr. molodykh uchenykh. Saratovsk. un-t. Vyp. matem. Saratov, 1964, 11-18

TOPIC TAGS: beam column balance, differential geometry, thin rod

TRANSLATION: Equilibrium equations for a thin rod with variable flexural and torsional rigidities, produced by a distributed momentary load, are interpreted from the standpoint of differential geometry. Conditions are given under which the equations of equilibrium for a thin rod coincide with the equations describing the unit velocity motion of a unit mass point in a four-dimensional quasi-rheonomic space. Bibl. with 7 titles. - L. A. Tolokonnikov

SUB CODE: AS ENCL: 00

Card 1/1

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

FENZOV, Yu.Ye.; FOMICHINA, N.F.; GOKHMAN, A.V.; KABAK V., V.I.; K. VOLKOVA, Yu.K.; LOSIK, M.V.; SPIVAK, M.A.; SAFRONOVA, M.V., red.

[Problems in vector algebra] Sbornik zadach po vektornoi algebre. Saratov, Izd-vo Saratovskogo univ., 1964. 59 p.
(MIRA 18:4)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHMAN, B.L., gornyy inzh.

Standardization of thermal conditions in deep working at hydraulic mines. Ugol' 39 no.7:91-93 S '64. (MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

GOKHMAN, D.B., inzh.; TARKHIN, A.I., inzh.

Gas turbine power system for [illegible] (MIRA 17:1)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

L 2481-66 EWT(d)/EPA/EWT 1)/EWP(f)/EPF(n)-2/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(1)/ETC(m)
ACCESSION NR: AP5024367 UR/0286/65/000/015/0035/0035
621.165-567.5
621.438-567.5

AUTHOR: Gokhman, D. B.; Feygin, V. L.

TITLE: A device for compensating for axial stresses in turbomachines. Class 14, No. 173247

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 35

TOPIC TAGS: axial stress compensation, gas turbine, compressor, labyrinth packing

ABSTRACT: An Author Certificate has been issued for a device for compensating for axial stresses in turbomachines, e.g., gas turbines and compressors. The device contains a balancing piston and end packing which, with the casing, forms an intermediate cavity filled with the working medium which is drained off into a lower-pressure area. To increase reliability and to simplify the design, the piston is sectionalized in the form of several disks serving as the components of the radial labyrinth packing mounted on the shaft end. Within the casing, a shaped fitting is rigidly mounted over the inlet to the labyrinth packing, thus forming a cavity within the piston for feeding the working medium (see Fig. 1 of the Enclosure). Orig. art. has: 1 figure. [LB]

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut im. I. I. Polzunova (Central Boiler and Turbine Institute)

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

L 2481-66

ACCESSION NR: AP5024367

O

SUBMITTED: 29Dec63 ENCL: 01 SUB CODE: IE

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4104

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

L 2481-66

ACCESSION NR: AP5024367

ENCLOSURE: 01

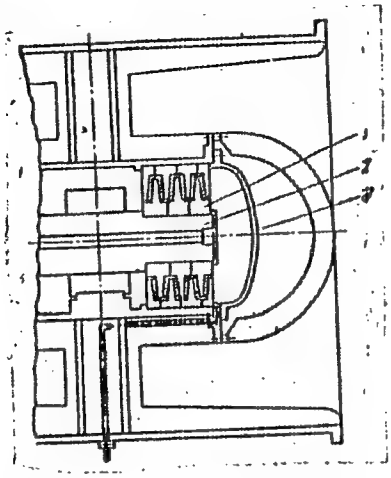

Fig. 1. Stress compensator

1 - Balancing piston; 2 - turbine shaft; 3 - shaped fitting.

BVK

Card 3/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

SOV/44-58-1-2820

Translation from: Referativnyy zhurnal, Matematika, 1958, Nr 1, p 41 (USSR)

AUTHOR: Goldman, E. Kh.

TITLE: On One Derivation of a Formula of Integration by Parts for Stieltjes Integrals (O odnom vyvode formuly integrirovaniya po chastyam dlya integralov Stilt'yesa)

PERIODICAL: Tr. Odessk. tekhnol. in-ta, 1957, Nr 8, pp 13-16

ABSTRACT: It is shown that if in the determination of the elementary Stieltjes integral the usual limits of the integral sums are replaced by their limits according to Shabunovskiy, then for an integral generalized in this way, the formula of integration by parts remains correct.

P.I. Romanovskiy

Card 1/1

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

GOKHMAN, I.I.

Materials on the anthropology of the ancient population of the lower reaches of the Selenga River. Krat.soob.Inst.etn. 20:59-67 '54. (MLRA 7:6)
(Selenga Valley--Man, Prehistoric) (Man, Prehistoric--Selenga Valley)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0

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ALEKSEYEV, V.P.; GINZBURG, V.V.; GUREVICH, I.I.

In memory of Vasilii Grigor'evich Levich, Zhur. fiz. khim., dir. i ambr. 40 no.5:1253-1254 My '66. (MIRA 19:2)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

ZAYTSEV, Khaim Pinkhusovich; MACHKOVSKIY, Abram Isaakovich; GOKHMAN, I.S., red.; DASHEVSKIY, Ya.I., red.; KHUTORSKAYA, Ye.S., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Organization and planning of operations in sintering plants] Organizatsiia i planirovanie proizvodstva na aglomeratsionnykh fabrikakh. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 204 p. (MIRA 12:1)
(Sintering)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

[illegible], I. [illegible], A. S.

[illegible] of evaluating [illegible] efficiency of capital investments in ferrous metallurgy. [illegible] tekh. ekon. issl., [illegible] no. [illegible] [illegible].

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

[illegible], I.S.; YAZYKOV, V.S.

Comparing the technical and economic indices of the open-hearth and converter processes operating with an oxygen blow. Sbor. trud. Cti. tekn.-ekon. issl. TSVIICHM no. 1:43-55 '59.
(MIRA 13:7)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

[illegible], L. ., [illegible], I.A.; [illegible], N.I.

Analysis of technical and economic indices of oxygen-blown converter steel production at the plant [illegible]. Stal. Stal. 45:75-84 '65. (MIRA 18:6)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHMAN, M. B.

USSR/Physics - Photoelements, AgS Mar/Apr 52

"Some Technical Applications of the Silver-Sulfide Photoelements FESS-U," Ye.G. Miselyuk, M.B. Gokhman; Inst of Phys, Acad Sci Ukrainian SSR

"Iz Ak Nauk, Ser Fiz" Vol XVI, No 2, pp 227-229

Authors developed a photo-relay for remote control of safety equipment for presses with half-open dies and for automatic equipment cutting clay masses for production of ceramic objects.

220T98

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHMAN, M.B.

MISELYUK, E.G.; GOKHMAN, M.B.

Photoelectric automatic blocking device for presses with open and half-open FEB-1 dies. Avtomatyka no.1:94-95 '57. (MLRA 10:5)

1. Institut fiziki AN URSR.
(Automatic control) (Power presses)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHMAN, M.L.

Single-phase motors are required for longitudinal supply of energy when alternating current is used. Elek.i tepl. tiaga 3 no.9:16-17 S '59. (MIRA 13:2)

1. Rukovoditel' brigady energosnabzheniya Khargiprotransa.
(Electric railway motors)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"

GOKHMAN, M.L.

Planning longitudinal electric power supply for railroad tracks.
Transp. stroi. 14 no.9:37-38 S '64 (MIRA 18:1)

1. Rukovoditel' brigady elektrosnabzheniya Kharkovskogo proyektno-izyskatel'skogo instituta.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610003-0"
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[illegible]TVENKO, A. S., inzh. (Khar'kov); [illegible], [illegible], [illegible] (Khar'kov)

Automatic control of fueling diesel [illegible] [illegible] transp.
[illegible]